



**Nineveh with Mosul  
in background**



**Reconstructive work  
on the city wall**





cdli

CUNEIFORM DIGITAL LIBRARY INITIATIVE

*A joint project of the*  
University of California at Los Angeles *and the*  
Max Planck Institute for the History of Science

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Work in Progress

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Berlin Mirror

<http://cdli.ucla.edu/>



The young stutterer  
Liam with his  
unemployed father,  
and the borough  
rouser, passing by  
their Liverpool flat.



North Koreans labor in South Pyongan province on a UN food-for-work project for three liters of grain per day.





one  
year



two years  
etc. up to



ten  
years



one  
month



two months  
etc. up to



twenty-four  
months



one  
day



two days  
etc. up to



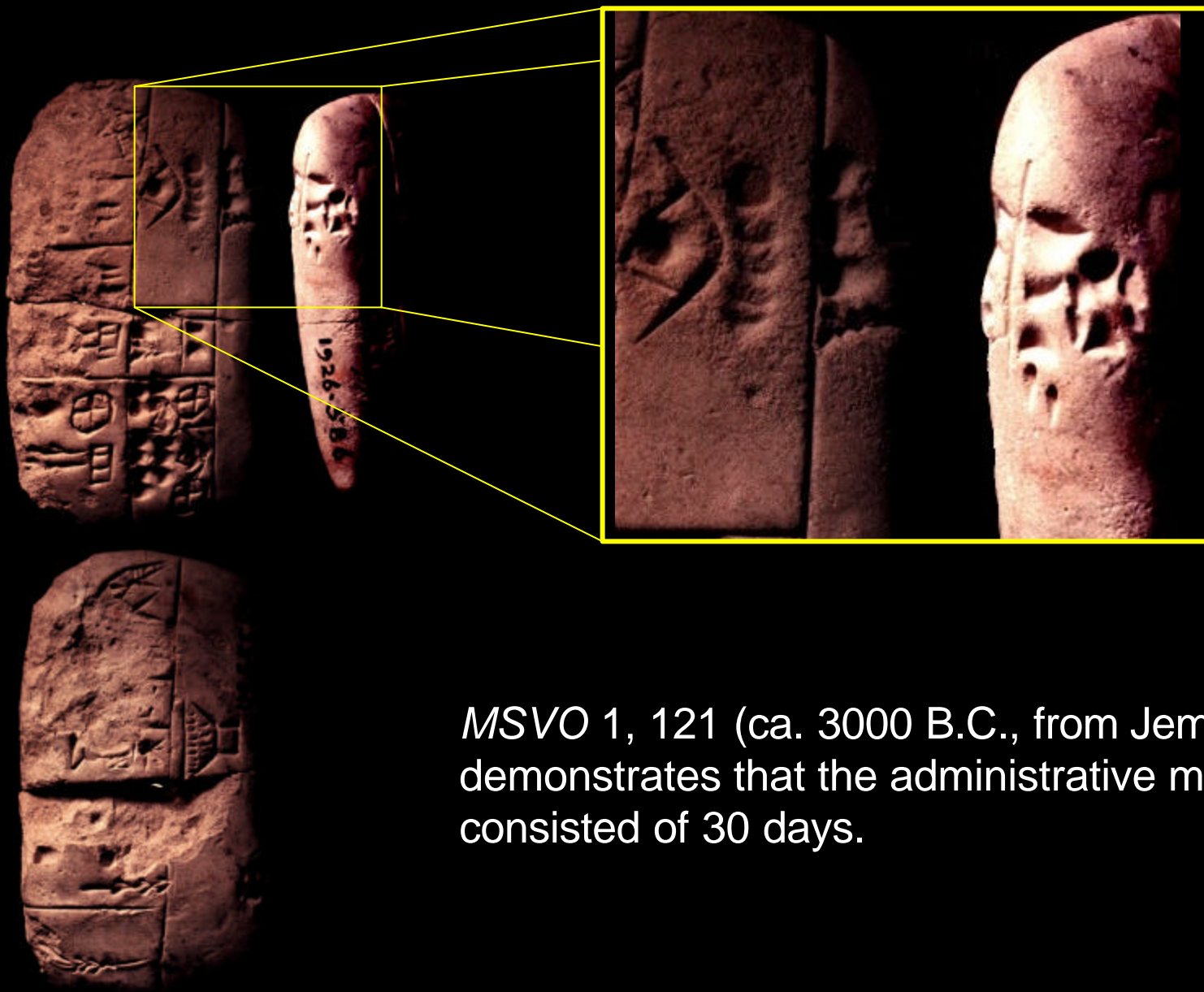
fifteen  
days



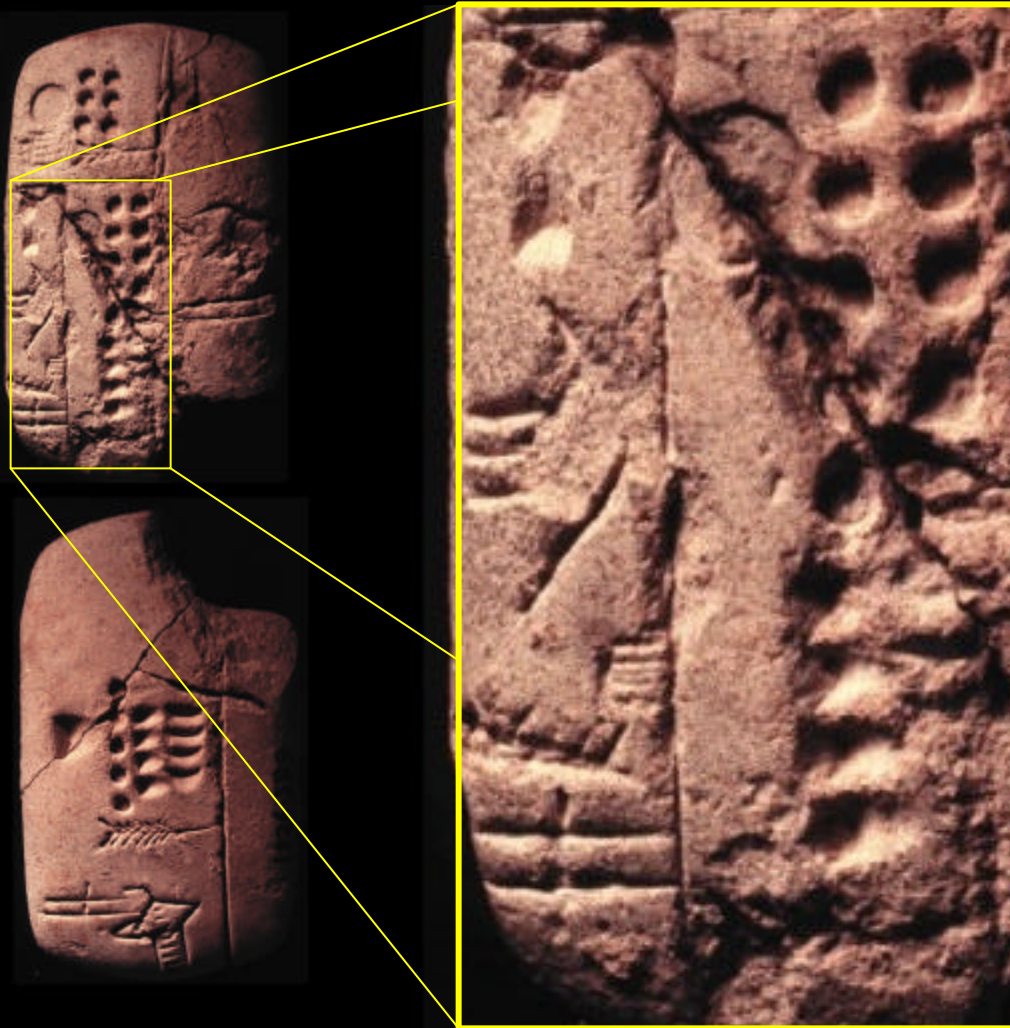
one month and  
five days

The system of archaic time notations



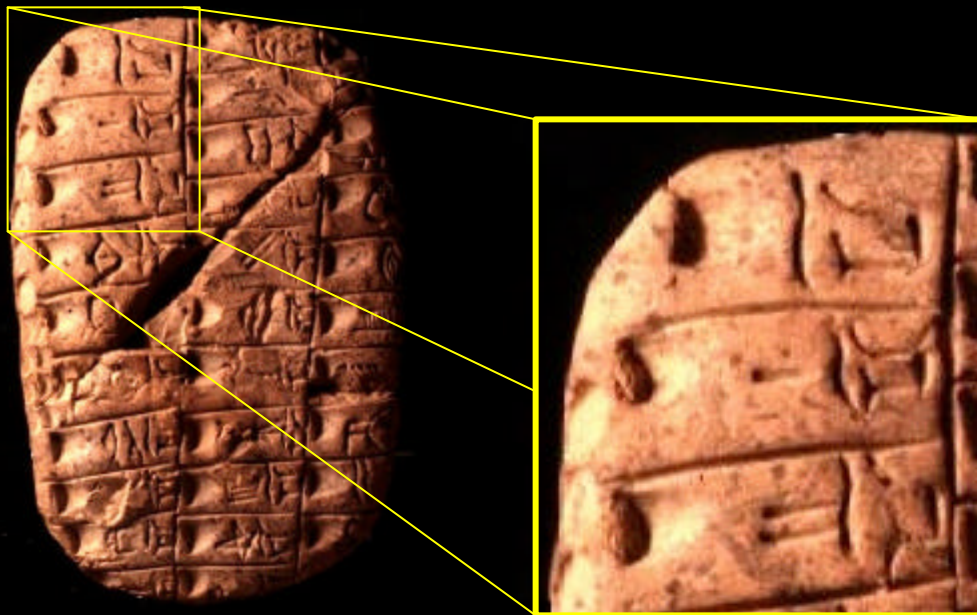


*MSVO 1, 121* (ca. 3000 B.C., from Jemdet Nasr), demonstrates that the administrative month consisted of 30 days.



*MSVO 1, 122* (ca. 3000 B.C., from Jemdet Nasr), demonstrates that the administrative year consisted of 360 days (12 months of 30 days each).





The archaic pig list W 12139 includes notations representing juvenile animals in their first and second years.



The Schøyen collection text MS3035 represents a complex account of slaves, five of whom are qualified as “infants in year one”, ten “infants in year two”, sixteen “infants in year three”. Four-year-olds probably entered the workforce.







**The archaic slave account  
MS 2437 at 72, and detail  
at archival 600ppi.**





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# cdli

## Search for Cuneiform Documents

[Home](#)[Help](#)

☒ Match all words on page (AND) ☐ Match any word on page (OR)

**Primary Publication** (e.g. "TMH 5, 1")

contains

or 5

**Museum Number** (e.g. "HS 751")

contains

**Alternate Publication**

contains

**Period** (e.g. Ur III)

contains

**Collection**

- No Selection -

Start Search

Clear Form

Search for signs and words in texts and glossary

# CDLI text search

cdli

OrSP 47-49, 500

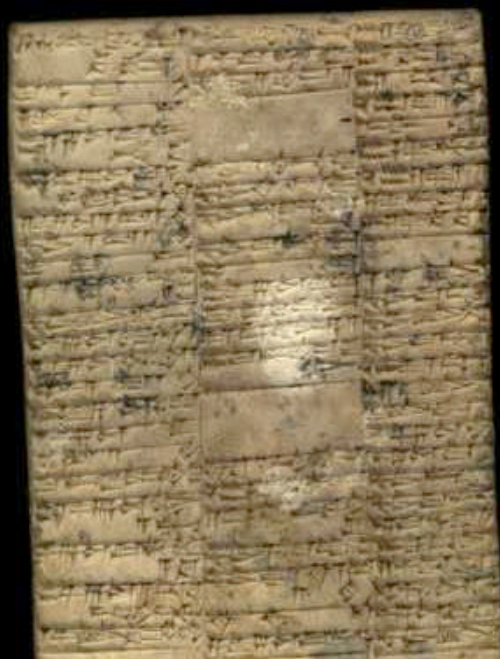
[Home](#)  
[Search Form](#)  
[\(Printer-friendly Version\)](#)

Primary Publication	OrSP 47-49, 500
Publication history	
Collection	
Museum no.	VAT 07169
Join status	No join
Provenience	Umma
Object type	
Genre	
Subgenre	
Language	
Period	Ur III

Image [\(Autograph\)](#)

Transliteration

Transliteration not available



CDLI text  
search 2

Address: http://128.97.208.178:591/cdli\_templates/FMPro?-DB=Main&-lay

Back Forward Stop Refresh Home AutoFill Print Mail

Address: http://cdli.ucla.edu/DL/VAM/UR3/JPG/P125388\_0.jpg



go

cdli

OrSP 47-49,

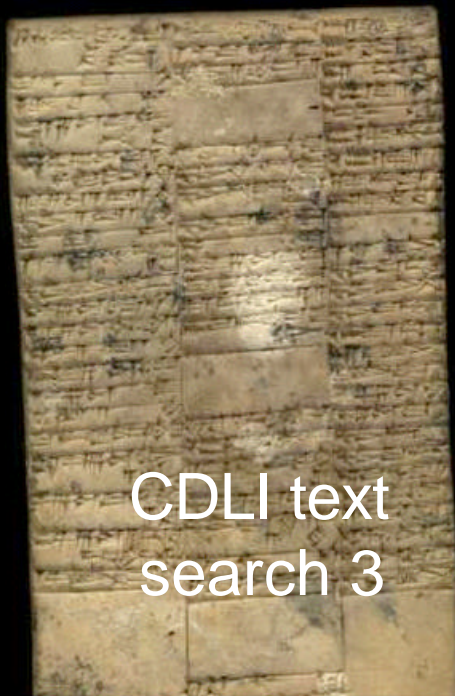
Primary Publication  
Publication history  
Collection  
Museum no.  
Join status  
Provenience  
Object type  
Genre  
Subgenre  
Language  
Period

OrSP 47-49,

VAT 07169  
No join  
Umma

Ur III

Image (Autograph)



CDLI text  
search 3



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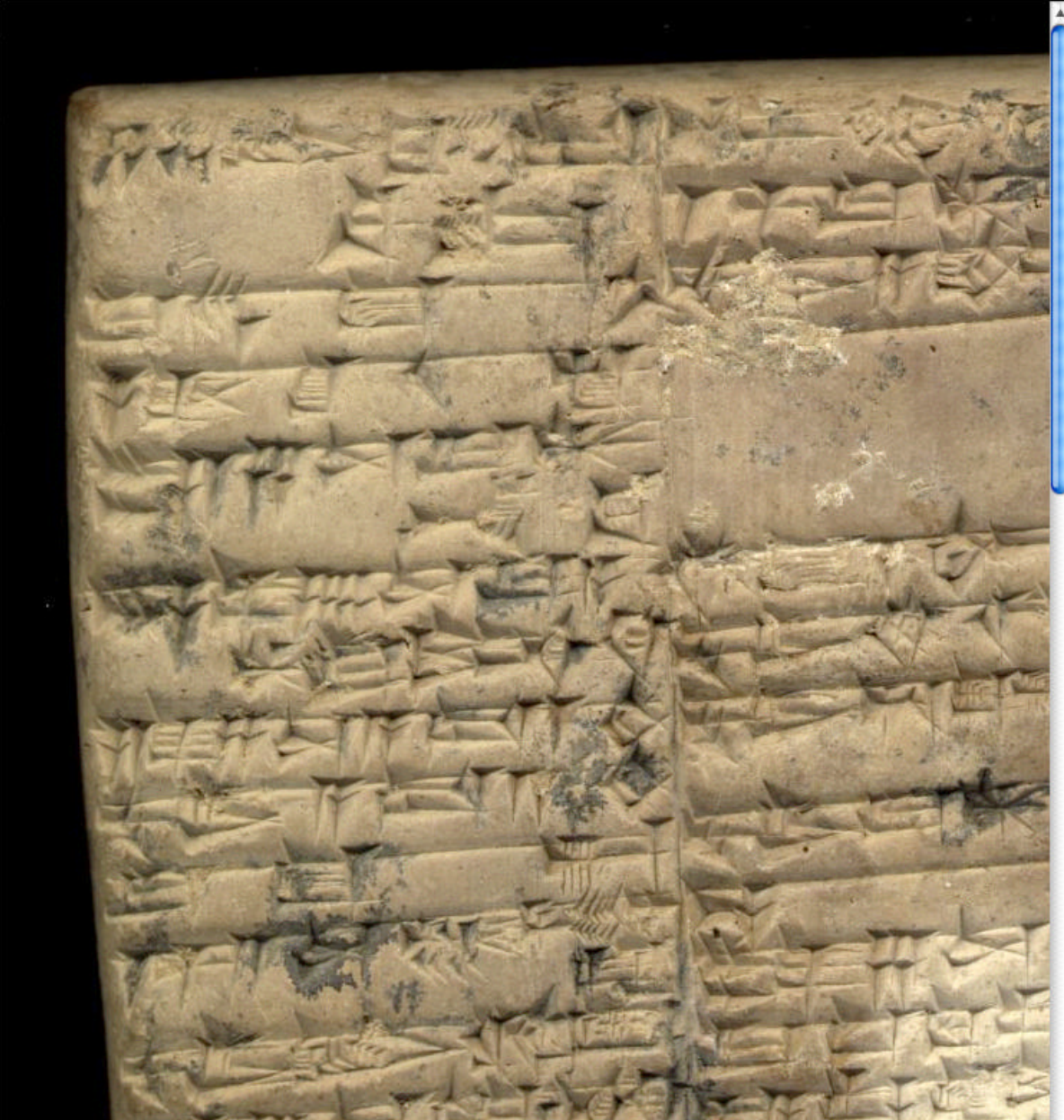
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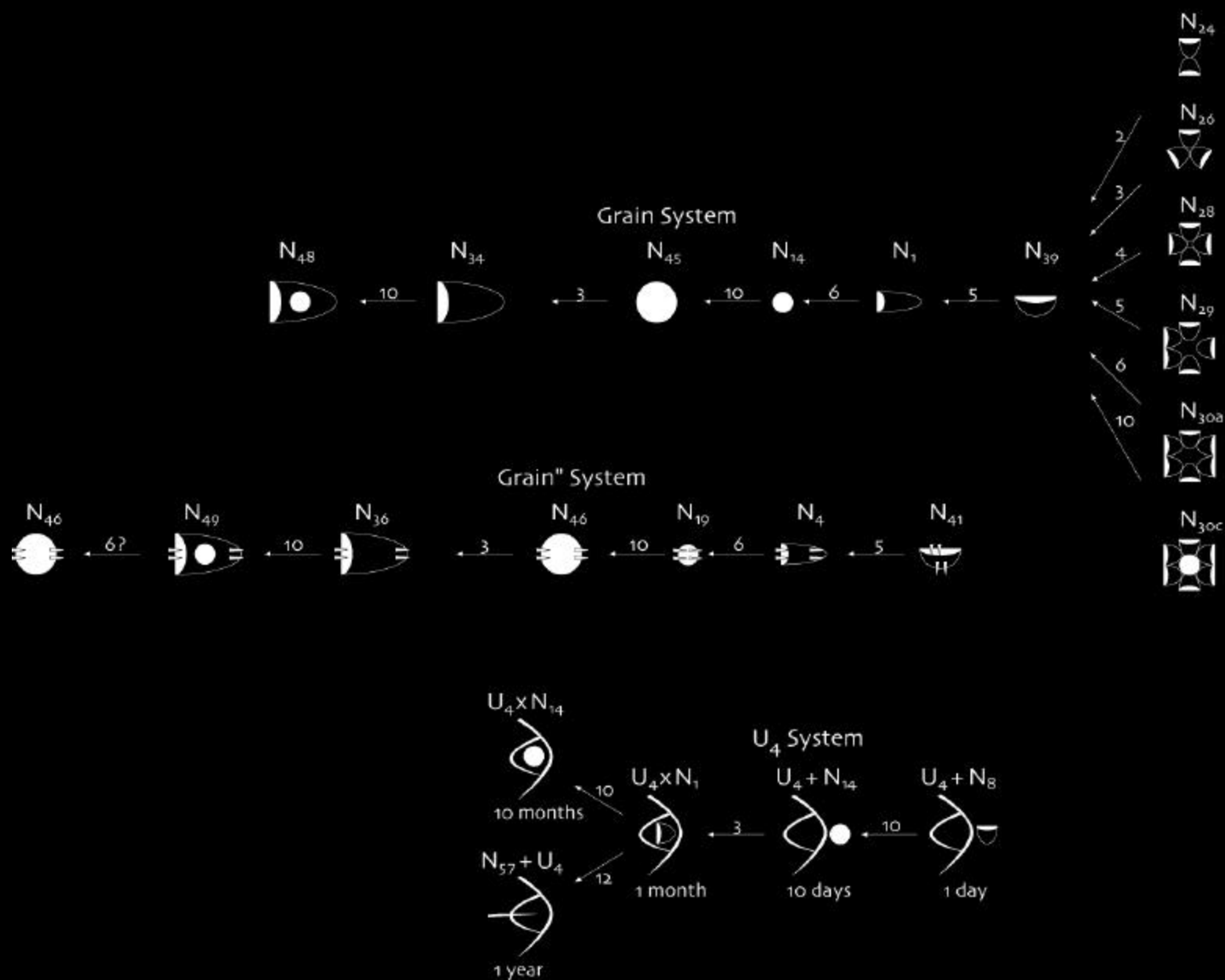
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**Metrological systems of the proto-cuneiform texts**

# CDLI numerical conventions

## Formal Constituents

### Unit

element of measure, e.g., sila3, gur, etc.

### Count

means of expressing 1 or more of a Unit.

### Value

a single combination of COUNT and UNIT.

### Ancient Equivalency Value (AEV)

an ancient equivalency VALUE, e.g., 5000 sila3; a property of either UNIT, VALUE or AMOUNT.

### Modern Equivalency Value (MEV)

a modern equivalency VALUE, e.g., 1 liter; a property of either UNIT, VALUE or AMOUNT.

### System

a definitional collection of UNITs, COUNTs, VALUEs, AEVs and MEVs which may optionally be localized in time and/or place and/or by keyword.

### Quantity

a complete sequence of VALUEs expressed in a given SYSTEM.

### Commodity

the counted referent of an AMOUNT

[Source: http://inanna.museum.upenn.edu/cdli/num/index.html](http://inanna.museum.upenn.edu/cdli/num/index.html)

<!--

The Q element contains a QUANTITY consisting of an optional N (which is the original grapheme sequence classified as N in initial conversion process) followed by a sequence of COUNT-UNIT pairs, an optional system-classifier (SYS-CLASS).

The @SYSTEM attribute on Q defines the SYSTEM and is an IDREF which should refer to the XML database of systems.

The @MEV attribute enables caching of modern-equivalency-values.

The @AEV attribute enables caching of ancient-equivalency-values.

This means that display of texts can toggle between displaying the original 'N', the digested sequence of count-unit pairs, the modern equivalent or the ancient equivalent (expressed in the base unit of the respective system).

-->

<!ELEMENT q (n? , cu+ , sys-class?)>

<!ATTLIST q

system IDREF #REQUIRED

mev CDATA #IMPLIED

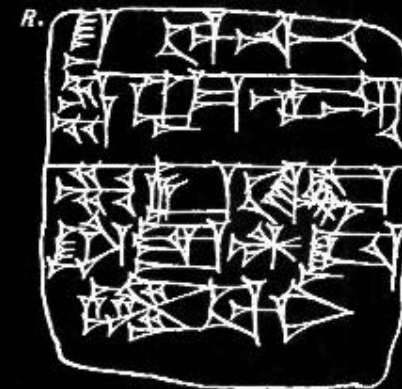
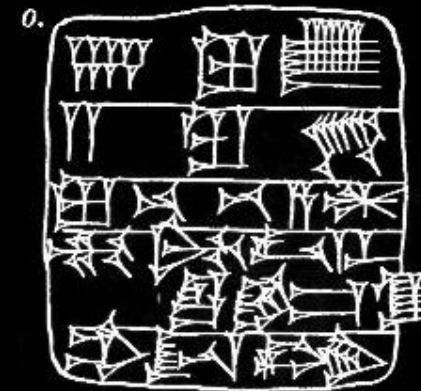
aev CDATA #IMPLIED >

**DTD insertion to accommodate numerical definitions**



&P105809

1. 9(disz) udu u2
  2. 2(disz) udu niga
  3. udu ug7-am3
  4. mu geme2 usz-bar-e-ne-  
sze3
  5. gu4-da-szum  
@reverse
1. szu ba-ti
  2. iti ezem-mah
  3. mu e2 PUZUR4-isz-{d}da-  
gan ba-du3



**Example of a simple ASCII text  
transliteration according to CDLI  
standards, without overlay (semantic)  
tagging.**

```
<text xmlns="http://cdli.ucla.edu/text/P105809"  
id="BIN 3, 2" xml:lang="sux">
```

```
<object type="tablet">  
<surface type="obverse">  
<column n="0">
```

```
<l n="1">  
<n><w><g>9(disz)</g></w></n><w><g>udu</g></w><w><g>u2</g></w>  
<w><g>udu</g><g>ug7</g>am3</g> </w><w><g>ug7</g><g>am3</g></w>  
</l>
```

```
<l n="2">  
<n><w><g>2(disz)</g></w></n><w><g>udu</g></w><w><g>niga</g></w>  
</l>
```

```
<l n="3">  
<w><g>udu</g><g>ug7</g>am3</g></w><w><g>ug7</g><g>am3</g></w>  
</l>
```

...

**Example of a simple ASCII transliteration scripted to CDLI archival XML.**